



ETIP SNET

EUROPEAN TECHNOLOGY AND INNOVATION PLATFORM
SMART NETWORKS FOR ENERGY TRANSITION

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TERMS OF REFERENCE

(29/06/2016)

Background

With the publication of the new Integrated Roadmap of the Strategic Energy Technology Plan (SET Plan) in September 2015, a new advisory environment for Research and Innovation is needed.

In the first implementation of the SET-Plan, initiated in 2007, six European Industrial Initiatives (EII) were established, including the EEGI (European Electricity Grid Initiative), which brought together industry, the research community, Member States and the European Commission. These initiatives aimed at the rapid development of key energy technologies at European level, for which the barriers, scale of investment and risk can be better tackled collectively. In parallel, the European Energy Research Alliance (EERA) has been working since 2008 to align the R&D activities of individual research organisation with SET-Plan priorities and to determine a joint programming framework at EU level. Implementation of the SET-Plan was also supported by a series of industry-led European Technology Platforms (ETPs). These help define research and technological development objectives and lay down concrete goals for achieving them.

Today, the European Commission is calling for the creation of a European Technology and Innovation Platform (ETIP) which can address issues in the fields of smart grids, storage and energy systems integration.

Vision: Smart Networks for Energy Transition

The ETIP SNET positions itself together with the smart grid at the center of an energy system which is under transition towards a low carbon energy, in line with the EU 2020,

2030 and 2050 decarbonisation objectives, in which the share of electricity in the overall energy mix is expected to grow. The electricity grid is challenged on the production side by an increasing share of renewables, in particular variables and on the consumption side by evolving consumption profiles. The expected growing electrification of transport and of heating and cooling are additional elements which should be integrated. In order to cast flexibility in the system, many options can be envisaged such as demand response, storage with or without re-electrification and variable generation. Technologies such as power to heat, power to gas, power to fuel offer solutions to inject renewable energy in sectors which rely mostly on hydrocarbon fuels. The management of such a complex system will obviously rely extensively on ICT technologies. This leads naturally to the proposed ETIP title: Smart Networks for Energy Transition.

Mission and goals

- Set-out a vision for research and innovation for Smart Networks for Energy Transition and engage stakeholders in this vision
- Prepare and update the Strategic Research and Innovation Agendas, report on the implementation of RD&I activities at European, national/regional and industrial levels
- Provide input to the Strategic Energy Technology Plan
- Identify innovation barriers, notably related to regulation and financing
- Develop further enhanced knowledge-sharing mechanisms that help bringing RD&I results to deployment
- Preparing consolidated stakeholder views on Research and Innovation to European Energy Policy initiatives
- Ensure the stakeholder community receives proper feedback

The ETIP SNET is open to new stakeholders and its structure will allow to give answers to emerging issues with ad-hoc experts / working groups for a wide set of topics.

Stakeholders and Governance

In order to have a wide representation of stakeholders and offer agile and efficient operation of ETIP SNET, the platform is organised as follows:

- A **Governing Board** to steer the platform with a limited number of seats where associations send representatives
- **Working Groups** which are open for experts to participate and provide input to the Governing Board; working groups can be permanent or ad-hoc.
- A **National Stakeholders Coordination** group to make the links with various national stakeholders.



Governing Board

The Governing Board is the main decision-making body. It steers the ETIP, launches initiatives, elaborates and approves a yearly work plan. The members of the Governing Board are expected to bring their unbiased expertise to the ETIP SNET and to represent the collective view of their stakeholder organisation, not that of their own company.

Members should be able to make active contribution, demonstrate a high degree of commitment, and devote sufficient time to the Governing Board. They should also be in a position to influence stakeholders planning research & innovation programmes.

The members of the Governing Board meet at least twice a year in plenary meetings and when it is considered necessary by its Executive Committee.

Governing Board membership is not subject to remuneration or reimbursement of travel expenses.

The initial composition is as follows:

Stakeholder group	Number of seats	Associations
TSOs	4	ENTSO-E
DSOs	4	CEDEC, EDSO, Eurelectric, GEODE
National representatives	3	SET-Plan Steering Committee
Research & Academia	3	EERA - EUREC - EUA - EPUÉ
Storage (technology and services providers)	3	EASE - Eurobat - HEA
Consumers (aggregated and not aggregated)	3	ANEC - BEUC - SEDC
Thermal Generation (flexible)	3	COGEN Europe - EPPSA - ETN - EUGINE - EUTURBINE
ICT technology & network providers	3	Digital Europe - ESMIG - ETNO - EUTC
Non ICT - Manufacturers equipment suppliers	3	Europacable, Orgalime, T&D Europe
Renewable Energy Sources ETIPs	3	EGEC - Ocean - PV - RES H&C - Wind
Interface to Other Energy Carriers (Heat, Transport, Gas, ...)	3	EGVIA - EHA - ENTSO-G - ERTRAC - Euro Heat and Power - EUROGAS
Regulators*	1	ACER - CEER

TOTAL	36
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*Participation on ad-hoc basis

Governing Board decisions are taken by consensus, whenever possible. If not possible, a vote can be organised on the basis of the seats indicated in the table

above. Additional stakeholders may be invited to attend Governing Board meetings on an ad-hoc basis.

For the initial formation of the Governing Board, the European Commission asks stakeholder representative organisations to nominate their representative among its membership (the defined number of seats per stakeholder is provided above) and up to one alternate per representative. The National Representatives are appointed in consultation with the SET-Plan Steering Committee. The Governing Board may decide to amend this composition.

Executive Committee (ExCo)

The ExCo members are the Chair and Vice-Chairs of the Governing Board together with the leaders of the Permanent Working Groups. The ExCo provides executive support to the Governing Board and acts as facilitator to drive the processes, and the decisions taken by the Governing Board.

Chair and vice-chairs are serving for a period up to three years period and are endorsed by the Governing Board. In order to ensure renewal and continuity, a new Chair or vice-Chair is appointed every year, replacing one of the ExCo members. Candidates must represent parties having the system view of the electricity/energy system.

Permanent Working Groups and Ad-Hoc Task Forces

Permanent Working Groups and Ad-Hoc Task Forces are created by the Governing Board. Working Groups terms of references and Chair-person are proposed by the Working Group and approved by the Governing Board.

A Working Group and/or Ad-Hoc Task Force is composed of a limited number of high-level experts willing to voluntarily participate to the work of the ETIP and act in their personal capacity.